

SIMATIC IPC677D (Panel PC), 2x10/100/1000 Mbit/s Ethernet; 4x USB V3.0, 1x serial (COM1); Watchdog, temperature and Fan monitoring; RAID controller onboard; 15" Touch (1280x 800); with front USB Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB cache) 500 GB HDD SATA; 2 GB DDR3 1600 DIMM; 2x PCI 2x USB additive (1 slot occupied) Windows 7 Ultimate 32 bit SP1, MUI (de, en, fr, es, it) SIMATIC IPC DiagMonitor enclosed 24 V DC industrial Power supply

### General information

|                          |         |
|--------------------------|---------|
| Product type designation | IPC677D |
|--------------------------|---------|

### Display

|                   |               |
|-------------------|---------------|
| Design of display | 15" TFT touch |
|-------------------|---------------|

|                 |       |
|-----------------|-------|
| Screen diagonal | 15 in |
|-----------------|-------|

#### Resolution (pixels)

- |  |                          |
|--|--------------------------|
| <ul style="list-style-type: none"> <li>• Horizontal image resolution</li> <li>• Vertical image resolution</li> </ul> | 1 280 Pixel<br>800 Pixel |
|--|--------------------------|

#### Backlighting

- |  |          |
|--|----------|
| <ul style="list-style-type: none"> <li>• MTBF backlighting (at 25 °C)</li> </ul> | 80 000 h |
|--|----------|

### Control elements

#### Input device

- |   |                       |
|---|-----------------------|
| <ul style="list-style-type: none"> <li>• Mouse, at front</li> </ul> | Front USB 2.0 (500mA) |
|---|-----------------------|

#### Touch operation

- |  |                        |
|--|------------------------|
| <ul style="list-style-type: none"> <li>• Design as touch screen</li> </ul> | Yes; analog, resistive |
|--|------------------------|

### Installation type/mounting

|        |                         |
|--------|-------------------------|
| Design | Panel PC, built-in unit |
|--------|-------------------------|

|                |     |
|----------------|-----|
| central design | Yes |
|----------------|-----|

|                                      |     |
|--------------------------------------|-----|
| Mounting in portrait format possible | Yes |
|--------------------------------------|-----|

|  |     |
|--|-----|
| maximum permissible installation angle +/- | 20° |
|--|-----|

### Supply voltage

|                        |                                   |
|------------------------|-----------------------------------|
| Type of supply voltage | 100/240 V AC (autorange); 24 V DC |
|------------------------|-----------------------------------|

#### Line frequency

- |  |            |
|--|------------|
| <ul style="list-style-type: none"> <li>• Rated value 50 Hz</li> <li>• Rated value 60 Hz</li> </ul> | Yes<br>Yes |
|--|------------|

#### Mains buffering

- |  |       |
|--|-------|
| <ul style="list-style-type: none"> <li>• Mains/voltage failure stored energy time</li> </ul> | 10 ms |
|--|-------|

### Power loss

|                       |       |
|-----------------------|-------|
| In full configuration | 155 W |
|-----------------------|-------|

| Processor   |  |
|---|--|
| Processor type  | Celeron G1820TE (2C/2T, 2.2 GHz, 2 MB Cache); Core i3-4330TE (2C/4T, 2.4 GHz, 4 MB Cache); Xeon E3-1268L v3 (4C/8T, 2.3 (3.3) GHz, 8 MB Cache, AMT)  |
| Chipset   | Intel DH82C226 PCH   |
| Graphic   |  |
| Graphics controller   | Intel HD graphics controller P4600 GT2 (Xeon, Core i3); Intel HD graphics controller (Celeron)   |
| Drives  |  |
| Optical drives  | DVD±R±RW combi-drive, optional   |
| Hard disk   | 3.5" SATA ≥ 500 GB, optional: 3.5" SATA ≥ 1 TB; RAID1 2x 2.5" SATA ≥ 320 GB; solid-state drive (SSD) ≥ 240 GB; all hard disk drives within the enclosure are vibration-damped; RAID1 2x 2.5" SATA ≥ 320 GB byte in removable drive bay |
| SSD   | Yes; ≥ 240 GB optional   |
| Memory  |  |
| Type of memory  | DDR3-1600 DIMM   |
| Main memory   | 2 / 4 / 8 / 16 GB; ECC optional  |
| Capacity of main memory, max.   | 16 Gbyte   |
| Data areas and their retentivity  |  |
| Retentive data area (incl. timers, counters, flags), max.                         | 2 Mbyte; 128 KB can be stored in the buffer time; optional   |
| Hardware configuration  |  |
| Slots   |  |
| <ul style="list-style-type: none"> <li>• free slots</li> </ul>                    | 2x PCI; optional: 1x PCI & 1x PCIe (x16); 2x PCIe (x4, x16); with card retainer  |
| <ul style="list-style-type: none"> <li>• Number of PCI slots</li> </ul>           | 2  |
| <ul style="list-style-type: none"> <li>• Number of PCIe slots</li> </ul>          | 2  |
| Interfaces  |  |
| PROFIBUS/MPI  | Optionally onboard, isolated, max. 12 Mbit/s, compatible with CP 5622  |
| Number of industrial Ethernet interfaces  | 2; 2x RJ45 (independent)   |
| Number of PROFINET interfaces   | 3; Optional  |
| USB port  | 4x USB 3.0   |
| Connection for keyboard/mouse   | USB / USB  |
| serial interface  | 1x COM1 (RS 232), optional: 1x COM2 (RS 232)   |
| parallel interface  | optional LPT1  |
| Video interfaces  |  |
| <ul style="list-style-type: none"> <li>• Graphics interface</li> </ul>            | 1x DisplayPort and 1x DVI-I; 1x VGA via adapter cable (optional)   |
| Industrial Ethernet   |  |
| <ul style="list-style-type: none"> <li>• Industrial Ethernet interface</li> </ul> | Onboard, 2x 10 / 100 / 1000 Mbit, RJ45   |
| <ul style="list-style-type: none"> <li>— 100 Mbps</li> </ul>                      | Yes  |

— 1000 Mbps

Yes

### Interrupts/diagnostics/status information

Bus diagnostics

Yes

### Integrated Functions

#### Monitoring functions

- |                                   |          |
|-----------------------------------|----------|
| • Temperature monitoring          | Yes      |
| • Watchdog                        | Yes      |
| • Status LEDs                     | Yes      |
| • Fan                             | Yes      |
| • Monitoring function via network | Optional |

### EMC

#### Interference immunity against discharge of static electricity

- |   |  |
|---|--|
| • Interference immunity against discharge of static electricity | ±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2 |
|---|--|

#### Interference immunity against high-frequency electromagnetic fields

- |  |  |
|--|--|
| • Interference immunity against high frequency radiation | 10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6 |
|--|--|

#### Interference immunity to cable-borne interference

- |  |   |
|--|---|
| • Interference immunity on supply cables       | ±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric |
| • Interference immunity on signal cables >30m  | ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m   |
| • Interference immunity on signal cables < 30m | ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m                              |

#### Interference immunity against voltage surge

- |                           |   |
|---------------------------|---|
| • asymmetric interference | ±2 kV acc. to IEC 61000-4-5, surge asymmetric |
| • symmetric interference  | ±1 kV acc. to IEC 61000-4-5, surge symmetric  |

#### Interference immunity to magnetic fields

- |   |                           |
|---|---------------------------|
| • Interference immunity to magnetic fields at 50 Hz | 100 A/m; to IEC 61000-4-8 |
|---|---------------------------|

#### Emission of conducted and non-conducted interference

- |  |   |
|--|---|
| • Interference emission via line/AC current cables | EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A |
|--|---|

### Degree and class of protection

- |                   |      |
|-------------------|------|
| IP (at the front) | IP65 |
| IP (rear)         | IP20 |

### Standards, approvals, certificates

- |                       |     |
|-----------------------|-----|
| CE mark               | Yes |
| UL approval           | Yes |
| • UL 508              | Yes |
| cULus                 | Yes |
| RCM (formerly C-TICK) | Yes |

|             |  |
|-------------|--|
| KC approval | Yes                                      |
| FCC         | Yes                                      |
| EMC         | CE, EN 61000-6-4:2007, EN 61000-6-2:2005 |

### Ambient conditions

|  |   |
|--|---|
| Ambient temperature during operation   |   |
| <ul style="list-style-type: none"> <li>Ambient temperature during operation</li> </ul> | +5 °C to +45 °C with full configuration |
| Ambient temperature during storage/transportation                                      |   |
| <ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>                   | -20 °C<br>60 °C                         |

### Operating systems

|  |  |
|--|--|
| pre-installed operating system   | Windows 7 Ultimate, 32-bit/64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI |
| without operating system   | Yes  |
| pre-installed operating system   |  |
| <ul style="list-style-type: none"> <li>Windows 7</li> <li>Windows 10 Enterprise</li> </ul> | Yes; Ultimate 32 bit or 64 bit<br>Yes; Windows 10 Enterprise 2015 or 2016 LTSB, 64-bit, MUI  |

### Dimensions

|   |                          |
|---|--------------------------|
| Width of the housing front  | 415 mm                   |
| Height of housing front   | 310 mm                   |
| Overall depth   |                          |
| <ul style="list-style-type: none"> <li>additional mounting depth (optical drive)</li> </ul> | 26 mm                    |
| Mounting cutout/device depth (W x H x T)  | 396 mm x 291 mm x 112 mm |

### Weights

|                                     |            |
|-------------------------------------|------------|
| Panel PC in central design, approx. | 12 kg      |
| <b>last modified:</b>               | 02/14/2020 |